



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/590423
Applicant (s) : William E. Mickols, et al.
Filed : August 23, 2006
TC/A.U. : N/A
Examiner : N/A
Title : APPARATUS FOR TREATING SOLUTIONS OF HIGH OSMOTIC STRENGTH

Docket No. : 63549A
Customer No. : 00109

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Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO/SB/08a. A concise explanation of the relevancy of any non-English language patent(s) and/or publication(s) for which no translation is provided is as follows: The three Japanese patents are represented by Patent Abstracts in English.

The cited U.S. patents and patent application publications are listed on Form PTO/SB/08a. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and

formulate his/her own understanding thereof.

Respectfully submitted,


Jennifer S. Warren
Registration No. 41,522
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JSW/ksw

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/590423
		Filing Date	August 23, 2006
		First Named Inventor	William E. Mickols
		Art Unit	Not Assigned
		Examiner Name	Not Assigned
		Attorney Docket Number	63549A
Sheet	1	of	3

U. S. PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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Sheet	2	of	3
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Signature**

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		Examiner Name	Not Assigned
Sheet 3	of 3	Attorney Docket Number	63549A

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		MASARU KURIHARA, HIROYUKI YAMAMURA, TAKAYUKI NAKANISHI, "High recovery / high pressure membranes for brine conversion SWRO process development and its performance data", Desalination, 125 (1999), 9-15	<input type="checkbox"/>
		G. SCHOCK, A. MIQUEL, "Mass transfer and pressure loss in spiral wound modules", Desalination, 64 (1987), 339-352	<input type="checkbox"/>
		E. G. DARTON, E. BUCKLEY, "Thirteen years' experiences treating a seawater RO plant", Desalination, 134 (2001), 55-62	<input type="checkbox"/>
		"Reverse Osmosis plant increases water supply for Gibraltar", Desalination	<input type="checkbox"/>
		"FILMTEC Membranes: How to evaluate the active membrane area of seawater reverse osmosis elements", Form No. 609-00434-803, FilmTec Corp., Edina, MN, 12/1/03	<input type="checkbox"/>
		FILMTEC Membranes: FILMTEC SW30-380 High Productivity Seawater RO Element", Form No. 609-00242-703, FilmTec Corp., Edina, MN, 12/18/03	<input type="checkbox"/>
		MARK WILF, MANFRED K. SCHIERACH, "Improved performance and cost reduction of RO seawater systems using UF pretreatment", Desalination, 135 (2001), 61-68	<input type="checkbox"/>
		Y. MAGARA, M. KAWASAKI, M. SEKINO, AND H. YAMAMURA, "Development of reverse osmosis membrane seawater desalination in Japan", Water Science and Technology, Vol. 41, No. 10-11, pp 1-8 (IWA Publishing 2000)	<input type="checkbox"/>
		M. WILF & K. KLINKO, "Improving performance and economics of RO seawater desalting using capillary membrane pretreatment", Hydranautics, Inc., June 1998	<input type="checkbox"/>
		FILMTEC Membranes: Membrane System Design Guidelines for 8-inch FILMTEC Elements", Form No. 609-21010-702XQRP, FilmTec Corp., Edina, MN (11/19/03)	<input type="checkbox"/>
		"Design Guidelines", TORAY Membrane America, Inc. San Diego, CA	<input type="checkbox"/>
		OSADA & NAKAGAWA, "Membrane Science and Technology, Chapter 9, "Reverse Osmosis", 333-359, Marcel Dekker, Inc., New York, NY 1992	<input type="checkbox"/>
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